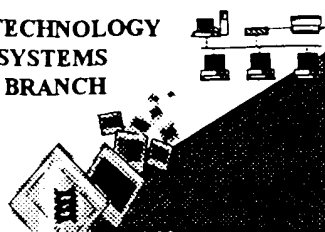


BIOTECHNOLOGY
SYSTEMS
BRANCH



0590
0327

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/090,453
Source: OIPK
Date Processed by STIC: 3/19/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/090,453

DATE: 03/19/2002

TIME: 15:58:25

Input Set : A:\404.app

Output Set: N:\CRF3\03192002\J090453.raw

Does

Error

4 <110> APPLICANT: Chen, Hongyun
 5 Le Bihan, Stephane
 6 Kulhanek, Barbara
 8 <120> TITLE OF INVENTION: NOVEL ABCA6 TRANSPORTER AND USES THEREOF
 11 <130> FILE REFERENCE: 100103.404
 13 <140> CURRENT APPLICATION NUMBER: US/10/090,453
 14 <141> CURRENT FILING DATE: 2002-03-04
 16 <160> NUMBER OF SEQ ID NOS: 3
 18 <170> SOFTWARE: FastSEQ for Windows Version 4.0

ERRORED SEQUENCES

20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 5332 *5327 shown*
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Homo sapiens
 25 <400> SEQUENCE: 1
 26 tacacccctt ttcagaaacc aggctgtgta agagctgctg gagtaggcac ccatttaaag 60
 27 aaaaaatgaa gaagcagcaa taaagaagtt gtaatcgta cctagacaaa cagagaactg 120
 28 gttttgacag tgtttctaga gtgcttttta ttattttcct gacagttgtg ttccaccatg 180
 29 attactttct ctttcagcga ataggctaaa tgaatatgaa acagaaaagc gtgtatcagc 240
 30 aaaccaaagc acttctgtgc aagaattttc ttaagaaatg gaggatgaaa agagagagct 300
 31 tattggaatg gggcctctca atacttctag gactgtgtat tgctctgttt tccagttcca 360
 32 tgagaaatgt ccagtttctt ggaatggctc ctcagaatct gggaagggtg gataaattta 420
 33 atagctcttc tttaatggtt gtgtatacac caatatctaa ttttaaccag cagataatga 480
 34 ataaaacagc acttgctcct cttttgaaaag gaacaagtgt cattggggca ccaaataaaa 540
 35 cacacatgga cgaaataact ctggaaaatt taccatatgc tatgggaatc atctttaatg 600
 36 aaactttctc ttataagtta atatttttcc agggatataa cagtccactt tggaaagaag 660
 37 atttctcagc tcattgctgg gatggatatg gtgagttttc atgtacattg accaaatact 720
 38 ggaatagagg atttggtgct ttacaaacag ctattaatac tgccattata gaaatcacia 780
 39 ccaatcaccc tgtgatggag gagttgatgt cagttactgc tataactatg aagacattac 840
 40 ctttcataac taaaaatctt cttcacaaatg agatgtttat tttattcttc ttgcttcatt 900
 41 tctccccact tgtatatatt atatactca atgtaacaaa agagagaaaa aagtctaaga 960
 42 atttgatgaa aatgatgggt ctccaagatt cagcattctg gctctcctgg ggtctaattc 1020
 43 atgctggctt catctttatt atttccatat tcattacaat tatcataaca ttcacccaaa 1080
 44 ttatagtcat gactggcttc atggctatat ttatactctt ttttttatat ggcttatctt 1140
 45 tggtagcttt ggtgttctcg atgagtggtc tggttaaagaa agctgtcttc accaatttgg 1200
 46 ttgtgtttct ccttaccctc ttttgggatg gtctgggatt cactgtattt tatgaacacc 1260
 47 ttccttcacg tctggagtgg attttgaaata tttgtagccc ttttgctttt actactggaa 1320
 48 tgattcagat tatcaaacg gattataact tgaatgggtg aatttttctt gacccttcag 1380
 49 gagactcata tacaatgata gcaactttct ctatgttgct tttggatggt ctcatctact 1440
 50 tgctattggc attatacttt gacaaaattt taccctatgg agatgagcgc cattattctc 1500

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/090,453

DATE: 03/19/2002

TIME: 15:58 25

Input Set : A:\404.app

Output Set: N:\CRF3\03192002\J090453.raw

```

51 ctttattttt cttgaattca tcattcttgtt tccaacacca aaggactaat gctaaggtta 1560
52 ttgagaaaaga aatcgatgct gagcaccctt ctgatgatta ttttgaacca gtagctcctg 1620
53 aattccaagg aaaagaagcc atcagaatca gaaatgttaa gaaggaatat aaaggaaaat 1680
54 ctggaaaagt ggaagcattg aaaggcttgc tctttgacat atatgaaggc caaatcacgg 1740
55 caatcctggg tcacagtggg gctggcaaat cttcactgct aaatattctt aatggattgt 1800
56 ctgttccaac agaaggatca gttaccatct ataataaaaa tctctctgaa atgcaagact 1860
57 tggaggaaat cagaaagata actggcgtct gtcctcaatt caatgttcaa tttgacatac 1920
58 tcaccgtgaa ggaaaacctc agcctgtttg ctaaaataaaa agggattcat ctaaaaggaa 1980
59 tggacaacaga ggtacaacga atattattgg aattggacat gcaaaacatt caagataacc 2040
60 ttgctaaaca ttttaagtga ggacagaaaa gaaagctgac ttttgggatt accatttttag 2100
61 gagatcctca aattttgctt ttgatgaac caactactgg attggatccc ttttccagag 2160
62 atcaagtgtg gagcctcctg agagagcgta gagcagatca tgtgatcctt ttcagtaccc 2220
63 agtccatgga tgaggctgac atcctggctg atagaaaagt gatcatgtcc aatgggagac 2280
64 tgaagtgtgc aggttcttct atgtttttga aaagaagggt gggctcttga tatcacctaa 2340
65 gtttacatag gaatgaaata tgtaaccacg aacaaataac atccttcatt actcatcaca 2400
66 tccccgatgc taaattaaaa acagaaaaa aagaaaagct tgtatatact ttgccactgg 2460
67 gaaggacaaa tacatttcca gatcttttca gtgatctgga taagtgttct gaccagggag 2520
68 tgacaggtta tgacatttcc atgtcaactc taaatgaagt ctttatgaaa ctggaaggac 2580
69 agtcaactat cgaacaagat ttogaacaag tggagatgat aagagactca gaaagcctca 2640
70 atgaaatgga gctggctcac tcttccttct ctgaaatgca gacagctgtg agtgacatgg 2700
71 gcctctggag aatgcaagtc tttgccatgg cagggtccg tttcttaaag ttaaaacgtc 2760
72 aaactaaagt gttattgacc ctattattgg tatttggaaat cgcaatattc cctttgattg 2820
E--> 73 ttgaaaatatattc cctttgattg (2820) ? 2820 shown above
E--> 74 ttgaaaatata ttgggaattt aaaaacgaat 2880 DO NOT SPLIT LINES
E--> 75 tgtattttct ctctcctgga caacttcccc aggaaccccg taccagcctg ttgatcatca 2940
E--> 76 ataacacaga atcaaatatt gaagatttta taaaatcact gaagcatcaa aatatacttt 3000
E--> 77 tggaaagtaga tgactttgaa aacagaaatg gtactgatgg cctctcatac aatggagcta 3060
E--> 78 tcatagtttc tggtaaacaa aaggattata gattttcagt tgtgtgtaat accaagagat 3120
E--> 79 tgcactgttt tccaattctt atgaatatta tcagcaatgg gtaacttcaa atgtttaate 3180
E--> 80 acacacaaca tattcgaatt gagtcaagcc catttctctt tagccacata ggactctgga 3240
E--> 81 ctgggttgcc ggaatgttcc ttttctttat ttttggttct atgtagcatt tctccttata 3300
E--> 82 tcaccatggg cagcatcagt gattacaaga aaaatgctaa gtcccagcta tggatttcag 3360
E--> 83 gcctctacac ttctgcttac tgggtgtgggc aggcactagt ggacgtcagc ttcttcattt 3420
E--> 84 taattctcct tttaatgtat ttaattttct acatagaaaa catgcagtac cttcttatta 3480
E--> 85 caagccaaat tgtgtttgct ttggttatag ttactcctgg ttatgcagct tctcttgtct 3540
E--> 86 tcttcatata tatgatatca tttatttttc gcaaaaggag aaaaaacagt ggcctttggg 3600
E--> 87 ctttttactt cttttttgcc tccaccatca tgttttccat cactttaatc aatcattttg 3660
E--> 88 acctaaagtat attgattacc acctatggtat tggttccttc atataccttg cttggatttta 3720
E--> 89 aaactttttt ggaagtgaga gaccaggagc actacagaga atttccagag gcaaattttg 3780
E--> 90 aattgagtgc cactgatttt ctagtctgct tcatacccta ctttcagact ttgctattcg 3840
E--> 91 tttttgttct aagatgcatg gaactaaaat gtggaaagaa agaattgca aaagatcctg 3900
E--> 92 ttttcagaat tcccccccaa agtagagatg ctaagccaaa tcagaagaa cccatagatg 3960
E--> 93 aagatgaaga tattcaacaa gaaagaataa gaacagccac tgcctgacc acttcaatct 4020
E--> 94 tagatgagaa acctgttata attgccagct gtctacacaa agaatatgca ggccagaaga 4080
E--> 95 aaagtgtgct ttcaaaaggg aagaagaaaa tagcagcaag aaatatctct tctgtgttct 4140
E--> 96 aagaagggtga aattttggga ttgctaggac ccagtggtgc tggaaaaagt tcatctatta 4200
E--> 97 gaatgatatc tgggatcaca aagccaaact ctggagaggt ggaactgaaa ggctgcagtt 4260
E--> 98 cagttttggg ccacctgggg tactgccttc aagagaacgt gctgtggccc atgctgacgt 4320
E--> 99 tgagggaaca cctggagggtg tatgtgtccg tcaaggggct caggaaagcg gacgcgaggg 4380

```

nos.
off

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/090,453

DATE: 03/19/2002

TIME: 15:58:25

Input Set : A:\404.app

Output Set: N:\CRF3\03192002\J090453.raw

E--> 100 tcgccatcgc aagattagtg agtgctttca aactgcatga gcagctgaat gttcctgtgc 4440
E--> 101 agaaattaac agcaggaatc acgagaaagt tgtgttttgt gctgagcctc ctgggaaact 4500
E--> 102 cacctgtctt gtccttgat gaaccatcta cgggcataga cccacaggg cagcagcaaa 4560
E--> 103 tgtggcaggc aatccaggca gtcgttaaaa acacagagag aggtgtctc ctgaccaccc 4620
E--> 104 ataacctggc tgaggcggaa gccttggtg accgtgtggc catcatggtg tctggaaggc 4680
E--> 105 ttagatgcat tggctccatc caacacctga aaaacagact tggcaaggat tacattctag 4740
E--> 106 agctaaaagt gaaggaaacg tctcaagtga ctttgggtcca cactgagatt ctgaagcttt 4800
E--> 107 tcccacaggc tgcagggcag gaaaggatt cctctttgtt aacctataag ctgcccgtgg 4860
E--> 108 cagacgttta cctctatca cagacctttc acaaattaga agcagtgaag cataacttta 4920
E--> 109 acctggaaga atacagcctt tctcagtga cactggagaa ggtattctta gagctttcta 4980
E--> 110 aagaacagga agtaggaaat tttgatgaag aaattgatac aacaatgaga tggaaactcc 5040
E--> 111 tccctcattc agatgaacct taaaacctca aacctagtaa tttttgttg atctcctata 5100
E--> 112 aacttatggt ttatgtaata attaatagta tgtttaattt taaagatcat ttaaaattaa 5160
E--> 113 catcagggtat attttgtaaa tttagttaac aaatacataa attttaaaat tattcttcct 5220
E--> 114 ctcaaacata ggggtgatag caaacctgtg ataaaggcaa tacaaaatat tagtaaagtc 5280
E--> 115 acccaaagag tcaggcactg ggtattgtgg aaataaaact atataaactt aa 5332

ncs.
off

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/090,453

DATE: 03/19/2002

TIME: 15:58:26

Input Set : A:\404.app

Output Set: N:\CRF3\03192002\J090453.raw

L:13 M:270 C: Current Application Number differs, Wrong Format

L:73 M:254 E: No. of Bases conflict, LENGTH:Input:2820 Counted:2844 SEQ:1

M:254 Repeated in SeqNo=1

L:115 M:252 E: No. of Seq. differs, <211>LENGTH:Input:5332 Found:5327 SEQ:1